

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-2 (canceled)

Claim 3 (currently amended): ~~The EDC assembly according to claim 1 In an internal combustion engine electrostatic crankcase ventilation system, an EDC, electrostatic droplet collector, assembly having an inlet receiving gas from said engine, and an outlet discharging cleaned gas, comprising a canister mounted to a mounting head in said system, a corona discharge electrode assembly in said canister and spaced from said canister by a gap providing a corona discharge zone, said canister providing a collector electrode, said canister being removably mounted to said mounting head to permit removal and replacement of said collector electrode.~~ wherein said corona discharge electrode assembly is mounted to said mounting head and remains mounted to said mounting head upon removal of said canister from said mounting head.

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Claim 4 (currently amended): The EDC assembly according to claim 1-3 wherein said canister engages said mounting head in threaded engagement such that said canister is mounted to said mounting head in spin-on relation, and is removed from said mounting head in spin-off relation.

Claim 5 (original): The EDC assembly according to claim 4 wherein said canister extends axially along an axis between first and second axial ends, said first end being closed and having said inlet, said second end being open and facing said mounting head and having threads threaded to said mounting head in said threaded engagement.

Claim 6 (original): The EDC assembly according to claim 5 wherein said corona discharge electrode assembly comprises an electrical conductor attached to an electrical insulator

having one or more apertures passing said gas axially therethrough from said canister to said mounting head.

Claim 7 (currently amended): ~~The EDC assembly according to claim 6~~ In an internal combustion engine electrostatic crankcase ventilation system, an EDC, electrostatic droplet collector, assembly having an inlet receiving gas from said engine, and an outlet discharging cleaned gas, comprising a canister mounted to a mounting head in said system, a corona discharge electrode assembly in said canister and spaced from said canister by a gap providing a corona discharge zone, said canister providing a collector electrode, said canister being removably mounted to said mounting head to permit removal and replacement of said collector electrode, wherein said canister engages said mounting head in threaded engagement such that said canister is mounted to said mounting head in spin-on relation, and is removed from said mounting head in spin-off relation, said canister extends axially along an axis between first and second axial ends, said first end being closed and having said inlet, said second end being open and facing said mounting head and having threads threaded to said mounting head in said threaded engagement, wherein said corona discharge electrode assembly comprises an electrical conductor attached to an electrical insulator having one or more apertures passing said gas axially therethrough from said canister to said mounting head, and wherein said one or more apertures are radially inward of said threads.

Claim 8 (original): The EDC assembly according to claim 7 wherein said one or more apertures are axially aligned with said gap providing said corona discharge zone.

Claim 9 (currently amended): The EDC assembly according to claim-6-7 wherein said gas flows through said one or more apertures into a plenum in said mounting head, said plenum being radially inward of said threads.

Claim 10 (currently amended): ~~The EDC assembly according to claim 9~~ In an internal combustion engine electrostatic crankcase ventilation system, an EDC, electrostatic droplet collector, assembly having an inlet receiving gas from said engine, and an outlet discharging cleaned gas, comprising a canister mounted to a mounting head in said system, a corona discharge electrode assembly in said canister and spaced from said canister by a gap providing a corona discharge zone, said canister providing a collector electrode, said canister being removably mounted to said mounting head to permit removal and replacement of said collector electrode, wherein said canister engages said mounting head in threaded engagement such that said canister is mounted to said mounting head in spin-on relation, and is removed from said mounting head in spin-off relation, wherein said canister extends axially along an axis between first and second axial ends, said first end being closed and having said inlet, said second end being open and facing said mounting head and having threads threaded to said mounting head in said threaded engagement, wherein said corona discharge electrode assembly comprises an electrical conductor attached to an electrical insulator having one or more apertures passing said gas axially therethrough from said canister to said mounting head, wherein said gas flows through said one or more apertures into a plenum in said mounting head, said plenum being radially inward of said threads, and wherein said gas flows from said inlet through a first annulus between said electrical conductor and said canister, and flows through a second annulus in said plenum, said first annulus having a larger inner diameter than said second annulus.

Claim 11 (currently amended): The EDC assembly according to claim ~~4~~ 7 wherein said inlet is in said canister, said outlet is in said mounting head, and wherein said gas flows from said canister into a plenum in said mounting head then to said outlet, said mounting head having a wall defining said plenum on one side thereof and defining a space on the other side thereof having a high voltage electrode.

Claim 12 (original): The EDC assembly according to claim 11 wherein said mounting head has a passage therein extending through said space on said other side of said wall and passing gas therethrough from said plenum to said outlet.

Claim 13 (currently amended): ~~The EDC assembly according to claim 12~~ In an internal combustion engine electrostatic crankcase ventilation system, an EDC, electrostatic droplet collector, assembly having an inlet receiving gas from said engine, and an outlet discharging cleaned gas, comprising a canister mounted to a mounting head in said system, a corona

5 discharge electrode assembly in said canister and spaced from said canister by a gap providing a corona discharge zone, said canister providing a collector electrode, said canister being removably mounted to said mounting head to permit removal and replacement of said collector electrode, wherein said inlet is in said canister, said outlet is in said mounting head, and wherein said gas flows from said canister into a plenum in said  
10 mounting head then to said outlet, said mounting head having a wall defining said plenum on one side thereof and defining a space on the other side thereof having a high voltage electrode, wherein said mounting head has a passage therein extending through said space on said other side of said wall and passing gas therethrough from said plenum to said outlet,  
15 and comprising a second wall in said mounting head facing said first mentioned wall and separated therefrom by a gap defining said space on said other side of said first wall.

Claim 14 (original): The EDC assembly according to claim 13 wherein said high voltage electrode is in said gap between said first and second walls, and said passage spans said gap between said first and second walls.

Claims 15-17 (canceled)

Claim 18 (currently amended): ~~The method according to claim 16~~ A method for servicing an internal combustion engine crankcase ventilation system having an EDC,

5 electrostatic droplet collector, comprising providing a canister removably mounted to a mounting head in said system, providing a corona discharge electrode assembly in said canister and spaced from said canister by a gap providing a corona discharge zone, said canister providing a collector electrode, removing said canister from said mounting head for removal and replacement of said collector electrode, wherein said corona discharge electrode assembly is mounted to said mounting head and remains mounted to said mounting head upon removal of said canister from said mounting head.

Claims 19-22 (canceled)

Claim 23 (currently amended): The EDC assembly according to claim 21 In an internal combustion engine electrostatic crankcase ventilation system, an EDC, electrostatic droplet collector, assembly comprising a canister removably mountable to a mounting head in said system, said canister having an inlet for receiving gas from said engine, said mounting head having an outlet for discharging cleaned gas, a corona discharge electrode assembly in said canister and removable therewith as a unit from said mounting head, wherein said canister extends axially along an axis and has an open axial end facing said mounting head, and comprising a mounting plate having a first portion attached to said canister and a second portion removably mountable to said mounting head, and an electrical insulator attached to said mounting plate, and wherein said corona discharge electrode assembly comprises an electrical conductor attached to said electrical insulator, wherein said mounting plate comprises a nut plate having a first segment attached to said canister, said first segment also being sealed to said mounting head by an annular gasket therebetween, said nut plate having a second segment engaging said mounting head in threaded relation, and wherein said nut plate has an intermediate shoulder segment extending radially inwardly from said first segment to said second segment, said first segment extends axially upwardly from said shoulder segment and supports said gasket, said second segment extends axially downwardly from said shoulder segment, said second segment having a first face facing

radially inwardly and being threaded, and a second face facing radially outwardly, said  
20 electrical insulator having an outer L-shaped flange having a first leg extending axially  
upwardly along said second face of said second segment of said nut plate, and having a  
second leg extending radially inwardly from said first leg and beneath said second segment  
of said nut plate.

Claim 24 (original): The EDC assembly according to claim 23 wherein said electrical  
insulator has one or more apertures therethrough, and said gas flows through said one or  
more apertures into a plenum in said plenum being radially inward of the threaded  
engagement of said second segment of said nut plate and said mounting head.

Claim 25 (original): The EDC assembly according to claim 24 wherein said mounting head  
includes an inverted L-shaped flange having a first leg extending radially outwardly and  
above said first segment of said nut plate and said open axial end of said canister and sealed  
thereto by said gasket in axial compression, said inverted L-shaped flange having a second  
5 leg extending axially downwardly and having a first face facing radially outwardly and  
threadingly engaging said first face of said second segment of said nut plate, said second leg  
of said inverted L-shaped flange having a second face facing radially inwardly and defining  
said plenum.

Claim 26 (original): The EDC assembly according to claim 25 wherein said second leg of  
said inverted L-shaped flange extends axially downwardly to a lower end, said lower end  
being above said second leg of said L-shaped flange of said electrical insulator, said  
apertures extending axially through said second leg of said L-shaped flange of said electrical  
5 insulator radially inward of said second leg of said inverted L-shaped flange.

Claim 27 (original): The EDC assembly according to claim 26 wherein gas flows from said  
inlet through a first annulus between said electrical conductor and said canister, said insulator

comprises a disc having an outer portion with said L-shaped flange extending outwardly therefrom, and having a central portion with a columnar stalk extending axially upwardly 5 therefrom into said plenum and spaced radially inwardly of said second leg of said inverted L-shaped flange by a second annulus therebetween defining said plenum, said second annulus having a smaller outer diameter than said first annulus.

Claim 28 (original): The EDC assembly according to claim 27 wherein the outer diameter of said second annulus is substantially equal to the inner diameter of said first annulus.

Claims 29-31 (canceled)

Claim 32 (currently amended): The EDC assembly according to claim 29 A removable and replaceable EDC, electrostatic droplet collector, assembly for an internal combustion engine electrostatic crankcase ventilation system, said assembly comprising an axially extending canister having an open axial end, a mounting plate fixed to said canister and detachably mountable to a mounting head in said system, a gasket sealingly compressed between said mounting plate and said mounting head, an electrical insulator attached to said mounting plate, and a corona discharge electrode attached to said electrical insulator, wherein said mounting plate has a first face engaging said mounting head in detachable relation, and a second distally opposite face engaging said electrical insulator in fixed relation.

Claim 33 (original): The EDC assembly according to claim 32 wherein said first and second faces face radially in opposite directions, and wherein said mounting plate at said first and second faces is radially between said mounting head and said electrical insulator on radially distally opposite sides thereof.

Claim 34 (original): The EDC assembly according to claim 33 wherein said mounting head has a face facing radially outwardly and engaging said first face of said mounting plate, said

electrical insulator has a face facing radially inwardly and engaging said second face of said mounting plate, and wherein said face of said electrical insulator is radially outward of said 5 face of said mounting head.

Claim 35 (original): In an internal combustion engine electrostatic crankcase ventilation system, an EDC, electrostatic droplet collector, assembly comprising a canister removably mountable to a mounting head in said system, said canister having an inlet for receiving gas from said engine, said mounting head having an outlet for discharging cleaned gas, a corona 5 discharge electrode assembly in said canister and removable therewith as a unit from said mounting head, said corona discharge electrode assembly comprising an electrical insulator supporting an electrical conductor, wherein gas flows from said inlet through a first annulus between said electrical conductor and said canister, said insulator comprises a disk having a central portion with a columnar stalk extending axially upwardly therefrom into a plenum in 10 said mounting head and defining a second annulus therebetween through which recirculation gas flows to said outlet, said second annulus having a smaller outer diameter than said first annulus.

Claim 36 (original): The EDC assembly according to claim 35 wherein the outer diameter of said second annulus is substantially equal to the inner diameter of said first annulus.

Claims 37-39 (canceled)

Claim 40 (currently amended): The EDC assembly according to claim 39 In an internal combustion engine electrostatic crankcase ventilation system, an EDC, electrostatic droplet collector, assembly comprising a canister removably mountable to a mounting head in said system, said canister having an inlet for receiving gas from said engine, said mounting head 5 having an outlet for discharging cleaned gas, a corona discharge electrode assembly in said canister and removable therewith as unit from said mounting head, wherein gas flows from

10 said canister into a plenum in said mounting head then to said outlet, said mounting head having a wall defining said plenum on one side thereof and defining a space on the other side thereof having a high voltage electrode, wherein said mounting head has a passage therein extending through said space on said other side of said wall and passing gas therethrough from said plenum to said outlet, and comprising a second wall in said mounting head facing said first mentioned wall and separated therefrom by a gap defining said space on said other side of said first wall, wherein said high voltage electrode is in said gap between said first and second walls, and said passage spans said gap between said first and second walls.

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Claim 41 (currently amended): The EDC assembly according to claim 37-40 wherein said corona discharge electrode assembly comprises an electrical insulator having one or more apertures therethrough passing gas from said canister into said plenum.

5 Claim 42 (currently amended): The EDC assembly according to claim 41 In an internal combustion engine electrostatic crankcase ventilation system, an EDC, electrostatic droplet collector, assembly comprising a canister removably mountable to a mounting head in said system, said canister having an inlet for receiving gas from said engine, said mounting head having an outlet for discharging cleaned gas, a corona discharge electrode assembly in said canister and removable therewith as unit from said mounting head, wherein gas flows from said canister into a plenum in said mounting head then to said outlet, said mounting head having a wall defining said plenum on one side thereof and defining a space on the other side thereof having a high voltage electrode, wherein said corona discharge electrode

10 assembly comprises an electrical insulator having one or more apertures therethrough passing gas from said canister into said plenum, and wherein said insulator comprises a stalk extending through said plenum, and wherein said wall has an opening receiving said stalk extending therethrough.

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Claim 43 (original): The EDC assembly according to claim 42 wherein said wall has a second opening therethrough passing gas from said plenum to said outlet.

Claims 44-46 (canceled)